This listing of claims will replace all prior versions, and listings, of claims in the application: Listing of Claims:

- 1. (currently amended) A molded semiconductor device package comprising:
 - a die attach pad;
- a first and a second semiconductor die, each die having a die bond pad, each of the die positioned such that the die bond pads of each die face in opposite directions, the first and second die being connected to opposing surfaces of the die attach pad;
 - a plurality of contact leads positioned proximate to the first and second die;
- a first <u>aluminum</u> bonding wire that is stitch bonded to the die bond pad of the first die and stitch bonded to a first one of the contact leads;
- a second <u>aluminum</u> bonding wire that is stitch bonded to the die bond pad of the second die and stitch bonded to a second one of the contact leads; and
- a <u>plastic</u> molding cap that encapsulates the first and second die, the first and second <u>aluminum</u> bonding wire, and a portion of the contact leads, wherein the <u>plastic</u> molding cap has a thickness of less than about 1 millimeter.
- 2. (original) A molded semiconductor device package as recited in claim 1 further comprising:
- a first conductive hall formation that is formed between the first bonding wire and the die bond pad of the first die; and
- a second conductive ball formation that is formed between the second bonding wire and the die bond pad of the second die.

Claims 3-5 (cancelled)

6. (original) A molded semiconductor device package as recited in claim 1 wherein the package is either a thin small outline package or a quad flat pack package.

Claims 7-11 (cancelled)

- 12. (currently amended) A molded semiconductor device package comprising:
- a pair of semiconductor dice that are oriented such that a top surface of each die are facing in opposite directions, the top surface of each die having at least one die bond pad;

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- a conductive ball formation positioned on the die bond pads of each die;
- at least one contact lead positioned proximate to the pair of semiconductor dice;
- at least one <u>aluminum</u> bonding wire that is stitch bonded to the contact lead and stitch bonded to one of the conductive ball formations on the die bond pad; and
- a <u>plastic</u> molding cap that encapsulates the pair of semiconductor dice, the conductive ball formation, the <u>aluminum</u> bonding wire and a portion of the contact lead.
- 13. (original) A molded semiconductor device package as recited in claim 12 further comprising:
- a die attach pad that is attached to and sandwiched between the pair of semiconductor dice.
- 14. (cancelled)
- 15. (original) A molded semiconductor device package as recited in claim 12 wherein the molding cap has a thickness of less than about 1 millimeter in thickness.
- 16. (currently amended) A molded semiconductor device package comprising:
 - a die attach pad;
- a first and a second semiconductor die, each die having a die bond pad, each of the die positioned such that the die bond pads of each die face in opposite directions, the first and second die being connected to opposing surfaces of the die attach pad;
 - a contact lead positioned proximate to the first and second die;
- a first aluminum bonding wire that is stitch bonded to the contact lead and stitch bonded to the die bond pad of the first die, wherein the first aluminum bonding wire was stitch bonded to the contact lead before being stitch bonded to the die bond pad;
- a second aluminum bonding wire that is stitch bonded to the contact lead and stitch bonded to the die bond pad of the second die, wherein the second aluminum bonding wire was stitch bonded to the contact lead before being stitch bonded to the die bond pad; and
- a plastic molding cap that encapsulates the first and second die, the first and second bonding wire, and a portion of the contact lead.
- 17. (original) A molded semiconductor device package as recited in claim 16 wherein the package is either a thin small outline package or a quad flat pack package.

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- 18. (original) A molded semiconductor device package as recited in claim 16 wherein the molding cap has a thickness of less than about 1 millimeter.
- 19. (original) A molded semiconductor device package as recited in claim 16 wherein the first die contains integrated circuit components configured to form a memory or a logic unit.

claims 20-25 (cancelled)